

SECRET

Office Memorandum • UNITED STATES GOVERNMENT

TO : Acting Chief, Engineering Branch

DATE: 11 October 1950

FROM : Acting Chief, Plant Engineering Section

SUBJECT: [] Base Station Location

25 YEAR
RE-REVIEW

1. This report covers the various investigations, evaluations, and recommendations made by the undersigned, together with [] and [] of Operations Branch, during the period of temporary duty (21 September to 5 October) in connection with the establishment of the [] Class A Base Station.

2. The present communications facilities operated by the Agency at [] are being taxed both by an ever-increasing traffic load and by space demands on the part []. These demands are presently forcing: a) a relocation of the [] transmitters to an undesirable location [] proper; b) a relocation of the [] receivers to a questionable site on the edge of the [] c) a displacement of [] personnel to more crowded quarters. Neither the sites being vacated nor those to which the move is being made offer satisfactory electrical conditions for operations of the type being undertaken. In addition to a high man-made noise level and shielding from metal shops and [] there is no room for the erection of high-gain aperiodic antennas, or for the expansion of facilities to handle new operational requirements that are now awaiting activation.

3. In connection with the search for a more favorable site, a detailed inspection was made of the radio station now used []. This station is located [] (separate receiving and transmitting installations) [] and has been offered to the Agency by [] Radio Officer, since [] is moving its facilities to new sites [] in order to install expanded antenna fields and additional transmitters. A description of the station is attached as Appendix A, including map, equipment lists, and photostats of antenna plans and building drawings. The high noise level at the receiver site, the susceptibility of the transmitter site to flooding, the general condition of all buildings, and the time involved [] to complete its move all combine to necessitate a recommendation against acceptance of this station by the Agency.

4. As an alternate proposal, [] suggested use of a site adjacent to the new [] transmitter site [] included in Appendix A). This would be acceptable but several days searching failed to uncover a suitable receiver site in the surrounding area. Because of the critical shortage of arable land [] it is practically impossible to obtain the consent [] to occupy land now devoted to agriculture. For this reason, [] Engineers were approached to determine

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25X1 what land is at present held [redacted]

25X1 The real estate officers of the above organizations were cooperative but not
25X1 very helpful as their records were badly out-of-date. [redacted]

25X1 5. Time was not available to search the entire [redacted] area. Such a
project, due to the terrain and lack of good roads, would require weeks of concentrated effort on the part of a qualified individual, preferably with a light plane at his disposal. It is doubtful whether even then suitable locations could be obtained without requisitioning land now under cultivation, a procedure which might prove difficult in view of established [redacted] policies.

25X1 8. At present, [redacted] is overloaded with the job of supervising
25X1 [redacted] Communications activities. His Maintenance Chief, [redacted] is equally as busy with the current moves and equipment repairs. In addition to their own jobs, these two have also been operating circuits on Sunday to permit the regular operators to have some time off. Under such conditions, it is hardly reasonable to assume that they will have time to undertake the negotiations and construction supervision that a new base will require. For this reason, it is recommended that Engineering Branch furnish one engineer initially, and others (if available) when construction actually begins. This engineer should have the power to negotiate contracts with civilian contractors through the appropriate military offices and in accordance with procedures currently prescribed for [redacted]
25X1 If priority is desired for establishment of the base, this engineer should be prepared to leave as soon as possible in order to get construction under way before winter. Transportation (automobile or station wagon) and a working fund should be provided.

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[illegible]

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STAT

TRANSMITTING STATIONTransmitters Installed

<u>Type</u>	<u>Power</u>	<u>Number</u>
PW 15	15 Kilowatts	3
BC 340	10 Kilowatts	1
BC 339	1 Kilowatt	18
Collins TDH	2.5 Kilowatts	1
93C	2.5 Kilowatts	4 R.F.
W.E. D-156000 (Single Sideband)	2.5 Kilowatts	3

STAT

TRANSMITTING STATION
Antennas

STAT

TypeBearingsNumber

Class A Rhombic

1

Class A Rhombic

1

Class A Rhombic

2

Class A Rhombic

2

Class C Rhombic

1

Class C Rhombic

3

Class C Rhombic

1

Class E Rhombic

1

Class E Rhombic

1

V Antenna

1

V Antenna

1

V Antenna

2

V Antenna

2

V Antenna

2

V Antenna

2

V Antenna

2

V Antenna

2

3 Wire Folding Doublets

69-360°

10

STAT

TRANSMITTING STATION

Emergency Power

<u>Type Units</u>	<u>Power</u>	<u>Number</u>
MURPHY DIESEL	100	3
PE 215	50	3

STAT

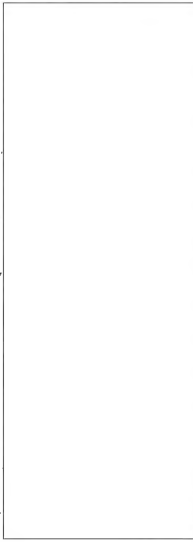
Number keying lines - 50
Number lines to receivers - 100
Distance to Receiving Station - 3 miles
Acroage - 100 (approximately)

STAT

RECEIVING STATIONReceivers Installed

<u>Type</u>	<u>Number</u>
AN/FR-3, AN/FGC-1	20
EC 779	5
WE D-99945 (Single sideband)	3
40C1, Modified (Single sideband)	3
AN/FRR-12	1

Antennas

<u>Type</u>	<u>Bearings</u>	<u>Number</u>
Class A Rhombic		1
Class A Rhombic		3
Class A Rhombic		2
Class C Rhombic		2
Class C Rhombic		4
Class C Rhombic		2
Class C Rhombic		2
V Antenna		2
Double Doublets		3
3 Wire Folding Dipole	0°-360°	16

STAT

STAT

RECEIVING STATION

Emergency Power

Type Units

Power

Number

PE 86

25

3

STAT

Number line - 150

Acroage - 90 (approximately)

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838
TRANSMITTER STATION - SMALL HOUSE
ENCLOSES AUTOMATIC VOLTAGE REGULATOR. NOTE
EXHAUST HEADER.

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838
3

3

STAT

VIEW TAKEN LOOKING TOWARD 
NOTE FACTORY IN BACKGROUND. THREE-ELEMENT
BEAM ANTENNAS ON CHIMNEY AND TOWER ARE
USED WITH AN/TRC-1 BACKUP CIRCUITS. - TRANSMITTER.

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8385
QUONSET "B.O.Q."! HUTS IN FAIR CONDITION
BUT INTERIORS NEED RE-FINISHING. HIGH WATER
HAS BEEN HARD ON WOODEN FLOORS! SANITARY
FACILITIES ARE "BEHIND" QUONSETS. - TRANSMITTER


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838

TRANSMISSION LINE H-FRAME DETAILS. WHITE
LAP-SIDED BUILDING IN BACKGROUND IS SMALL WARE-HOUSE.
SMALL GREY BUILDING (SEEN THROUGH H-FRAME) IS PUMP
HOUSE FOR COMPOUND.  ANTENNAS ARE IN
DISTANT BACKGROUND. - TRANSMITTER

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838
STAT
MAIN BUILDING

RECEIVER STATION

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838
9
9
END VIEW OF RECEIVER BUILDING SHOWING
BOILER HOUSE FOR HEATING SYSTEM.

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838
GENERATOR ROOM WING - RECEIVE STATION.
TANKS SHOWN, PLUS THOSE ON OTHER SIDE OF
BUILDING, HAVE CAPACITY OF ABOUT 6000 GALLONS

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3
3
LOOKING WEST FROM RECEIVER BUILDING.
PLANTS IN BACKGROUND ARE RESUMING OPERATION
AND NOISE LEVEL IS RISING. OPEN WIRE
CONSTRUCTION IN FOREGROUND IS NO GREAT HELP
IN NOISE REDUCTION EITHER.

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838
LOOKING SOUTH-WEST FROM
RECEIVER BUILDING. FACTORY BUILDING IN
BACKGROUND IS BEING REBUILT. MUCH
WELDING (ELECTRIC) ADDS TO THE GENERAL
NOISE

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LOOKING SOUTH FROM RECEIVER BUILDING.

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STAT
LOOKING SOUTH-EAST FROM RECEIVER
BUILDING. NOTE PROXIMITY OF TO
RHOMBICS.

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